

Emission Unit	Basis	Production		VOC (as VOC)		CO		NO _x		SO ₂		TSP		PM ₁₀		PM _{2.5}		TRS		H ₂ S		LEAD		CO ₂ e		
		amount	UOM	factor lb/UOM	emissions tpy	factor lb/UOM	emissions tpy	factor lb/UOM	emissions tpy	factor lb/UOM	emissions tpy	factor lb/UOM	emissions tpy	factor lb/UOM	emissions tpy	factor lb/UOM	emissions tpy	factor lb/UOM	emissions tpy	factor lb/UOM	emissions tpy	factor lb/UOM	emissions tpy	factor lb/UOM	emissions tpy	
BASELINE ACTUAL EMISSIONS (BAE) - JULY 2010 through JUNE 2012 ^A																										
TOTAL BASELINE EMISSIONS ^A					1,027.2		264.2		263.2		2,039.9		105.7		28.3		13.2		147.2		9.7		0.00			55,428
2021 ACTUAL EMISSIONS																										
Kraft Mill NCG System - Brown Mill ^{B,C,D}	Modified				50.97		18.18		103.81		1,354.62								4.39		0.28					
Kraft Mill Bleach Plant ^I	Retired				0.00		0.00												0.00							
ClO2 Plant ^I	Retired				0.00																					
Methanol Tank ^I	Retired				0.00																					
No. 1 Paper Machine - Coated Paper ^I	Retired				0.00							0.00		0.41		0.41										
No. 2 Paper Machine - Brown Paper ^F	Modified				0.00							0.00		0.00		0.00			0.00		0.00					
No. 3 Paper Machine - Linerboard ^F	Modified				154.82							0.39		0.39		0.39			5.59		1.18					
Pulp Dryer - Unbleached ^F	Modified				22.12							0.06		0.06		0.06			0.58		0.04					
No. 1 Coater - Natural Gas ^I	Retired				0.00		0.00		0.00		0.00		0.00		0.00		0.00					0.00		0		
No. 2 Coater - Natural Gas ^I	Retired				0.00		0.00		0.00		0.00		0.00		0.00		0.00					0.00		0		
No. 3 On-Machine Coater - Natural Gas ^I	Retired				0.00		0.00		0.00		0.00		0.00		0.00		0.00					0.00		0		
Starch Silos ^I	Retired											0.00		0.00		0.00										
TMP ^I	Retired				0.00																					
TMP Bleaching ^I	Retired				0.00																					
Woodyard ^F	affected				4.21							105.00		15.75		1.05										
Power Boiler - Natural Gas ^I	Retired				0.00		0.00		0.00		0.00		0.00		0.00		0.00					0.00		0		
Power Boiler - No. 6 Oil ^I	Retired				0.00		0.00		0.00		0.00		0.00		0.00		0.00					0.00		0		
Wastewater System - Brown Mill ^{F,G,H}	Modified				379.89													5.01E-02	12.51	2.09E-02	5.22					
TOTAL 2021 ACTUAL EMISSIONS					612.0		18.2		103.8		1,354.6		105.4		16.6		1.9		23.1		6.7		0.00		0	
NSR APPLICABILITY - BAE-to-ACT																										
TOTAL BASELINE EMISSIONS					1,027.2		264.2		263.2		2,039.9		105.7		28.3		13.2		147.2		9.7		0.00			55,428
TOTAL 2021 ACTUAL EMISSIONS					612.0		18.2		103.8		1,354.6		105.4		16.6		1.9		23.1		6.7		0.00			0
NET EMISSION INCREASE					(415.2)		(246.0)		(159.4)		(685.3)		(0.2)		(11.7)		(11.3)		(124.1)		(2.9)		(0.0)			(55,428)
NSR Threshold					40		100		40		40		25		15		10		10		10		0.6			75,000

A - Baseline emissions from April 2020 Project Columbia permit application.
B - VOC, NOX and CO emissions factors from July 2019 Project Columbia permit application (condensate steam stripper).
C - SO2 emissions factor represents DHEC multiple source test calculator algorithm value of 5.42 lb/ADTP for calendar year 2021 (June 2021 source test = 5.81 lb/ADTP, October 2021 source test = 3.99 lb/ADTP).
D - TRS and H2S emissions factors represent highest test condition from June 2021 source testing of combination boilers burning NCG + SOG.
E - VOC emissions factor from April 2020 Project Columbia permit application, TRS emissions factor from June 2021 source test.
F - VOC emissions factor from DHEC multiple source test calculator algorithm is 1.52 lb/ADTP for calendar year 2021 (July 2021 Subpart S initial performance test = 1.50 lb/ADTP, October 2021 Subpart S quarterly performance test = 1.62 lb/ADTP, based on the average ASB methanol loading and ASB fraction volatilized from WATER9 during the tests).
G - TRS emissions factors based on WATER9 modeling of WTS from June 2021 wastewater sampling data.
H - H2S emissions factors based on H2SS M modeling of WTS using June 2021 wastewater sampling data.
I - Source retired in 2020, no emissions in 2021.